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"Western Treasure -- Deep, Wet Snow"

FEDERAL-STATE COOPERATIVE
SNOW SURVEYS AND IRRIGATION WATER FORECASTS

# FOR OREGON

MARCH 1, 1948

Ву

Division of Irrigation, Soil Conservation Service
United States Department of Agriculture
and

Oregon Agricultural Experiment Station

Data included in this report were obtained by the agencies named above in cooperation with the Oregon State Engineer, U. S. Forest Service, National Park Service and other Federal, State and local organizations.

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# FEDERAL-STATE COOPERATIVE

# SNOW SURVEYS AND IRRIGATION WATER FORECASTS

FOR

OREGON

Report Pregared

by

W. T. Frost -- Hydraulic Engineer

Division of Irrigation
Soil Conservation Service
and
Oregon Agricultural Experiment Station
P. O. Box 1149
Medford, Oregon



# INDEX TO SNOW COURSES

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Name	INTERIOR DRAINAGE	SILVER LAKE	Silver Creek	CHEWAUGAN RIVER	Mill Creek	HARNEY BASIN	Deer Creek	Fish Creek Hart Mountain	Idylwild Perk Izee Summit	Rock Spring Silvies	Snow Wountain Starr Ridge	WARNER LAKE	Camas Creek	CUANO LAKE	Bald Mountain Cuano Creek	WEST COAST DRAINACE	dating anoder	OMPÇOA KIVEK Chemnion	Diamond Lake Goolaway Gap	Coolaway Mountain N.Umpoua near Lake Creek	Trap Creek Whaleback	BOGIE RIVER		Althouse Annie Spring	Billie Creek Divide	Fish Lake Coolaway Gap	Coolaway Mountain Crayback Peak	Hyatt Prairie Reservoir Little Red Mountain	Scragg Mountain Seven Lakes No. 1	Seven Lakes No. 2	Siskiyou Summit South Fork Canal	Wagner Butte Whaleback	
Number			27/6		922		973	952	961A 964	134	965 247B		911A		Nev. 972			533	743	7215	74.1 72.1.7		7102	831	722	725	7215	723	7220	7212	728	7213	
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Name	WILLAMETTE RIVER	Breitenbush Cascade Summit	Champion Charlton Lake	Hogg Pass	Marion Forks	Mary's Fear Santiam Junction Waldo Lake		KLAMATH LAKE BASIN	Annie Spring Billie Creek Divide	Chemult No. 1	Hyatt Prairie Reservoir Lake of the Woods No. 1	Quartz Mountain Seven Lakes No. 1	Seven Lakes No. 2 Strawberry	Summer Rim Sun Mountain Tealor Butte	20000	GOOSE LAKE BASIN	Camas Creek	Quartz Mountain Strawberry					and the same of the same of the same of	INDEX TO THE CALIFORNIA OREGON POWER COMPANY SNOW WATER STATIO	KLAMATH LAKE BASIN	Beatty	Chiloquin	Crystal Fort Klamath	Kirk Lake of the Woods	Pelican	Quartz mountein Richardson Ranch	GOOSE LAKE BASIN	Quartz Mountein
Number		551 321	522 327			552 521A			831 722	ب		811 7211	7212	877 836 877	<del> </del>		911A	837					i	Ä		-	cs w	7 5	92	to (	, 9 ;	1	6
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Name	LOWER COLUMBIA DRAINACE	WALLA WALLA RIVER		IOILERVE	UMAIITHA FLVER	Emigrant Springs Lucky Strike Meacham	Tollgate	WILLOW CREEK	frhickle Mountain	TOHN DAY BINED	Arbuckle Mountain	Beech Creek Summit Blue Mountain Spring	Blue Mountain Summit Dixie Springs	Cold Center Izee Summit	Olive Lake Snow Mountain Starr Ridge	DESCHUTES BIVER		Caldwell Ranch Cascade Summit	Clear Lake Crescent Lake	Derr Hogo Pass	Marks Creek New Dutchman Flat		Snow Wountain	Tamarack Three Creeks Meadows	HOOD RIVER	Brooks Meadows	Tilly Jane-Mt. Hood	SANDY RIVER	Clear Lake	Still Creek	CLACKAMAS RIVER	Clackamas Lake Peavine Ridge	
Number			212	717	Ċ	223	212		177	1	241	246A 133	77.77.77.77.77.77.77.77.77.77.77.77.77.	576	24.7B		ì	328	361	343	32.44	35.	8,5	342 331		431	735		361	451		592	
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Name	UPPER DOLUMBIA DRAINACE Lower Snake in Oregon	OWYHEE RIVER	2000	Buckskin, Lower		Fry Canyon Gold Creek Ranger Sta. Granite Peak			Rodeo Flat Silver City			MALHEUR RIVER	Blue Mountain Spring Crane Prairie	Lake Creek Rock Spring	BURNT RIVER	Barnev Creek	Blue Mountain Summit	Dooley Wountain Tipton	POWDER RIVER	Anthony Lake	Dooley Mountain Eilertson Meadows	Gold Center	Summit Springs	Taylor Creen	PINE CREEK	Schmeider Meadows	INNAHA RIVER	Coverdale	GRANDE RONDE RIVER	Aneroid Lake	Anthony Lake	Camp Carson Moss Spring	Summit Springs Taylor Green Tollgate
Number			I Most	Nev.2	952	Nev.5 Nev.6 Nev.7	Nev.8	Nev.9 Nev.10	Nev.11	951	Nev.15		133	136	667	143	7	172		155	156 1518	249	187	185		191		171		183	155	187 186A	75 E

March 1, 1948

# PRELIMINARY WATER SUPPLY OUTLOOK

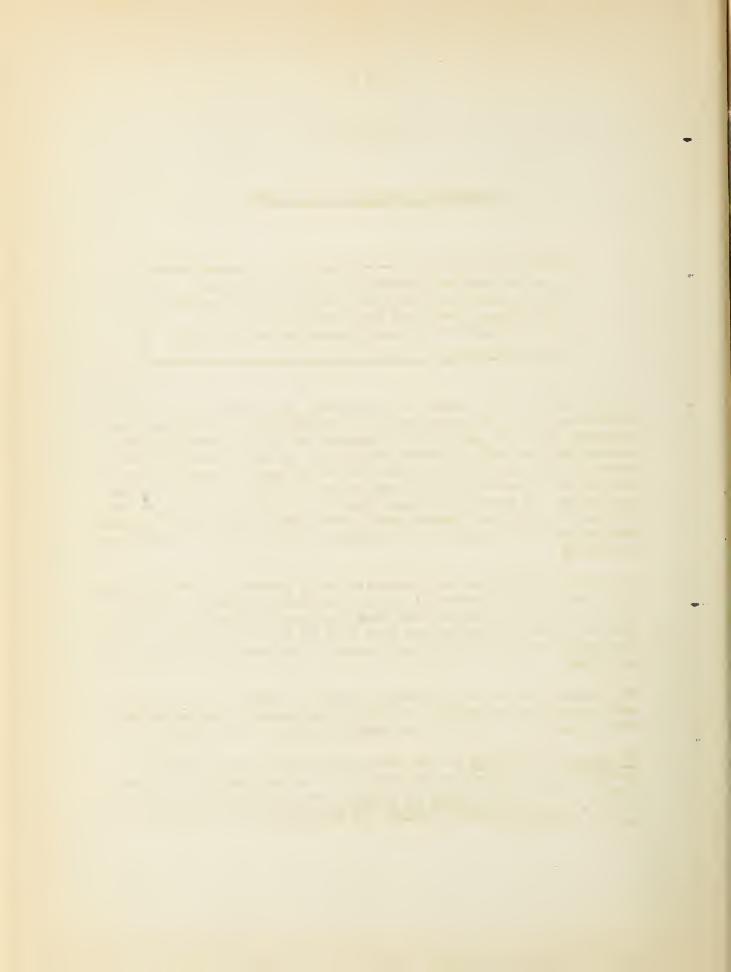
The outlook for Oregon's 1948 water supplies has improved slightly with heavy snowfall during February. Irrigated lands of the state will have "good" to critically short water supplies.

Water content of the Mountain snow cover, as of March 1, is still below average on 70 percent of all measured snow courses, but has improved this past month with 84 percent of the measurements now better than in 1947. Measured snow-water is still less than in the bountiful year of 1946 on 94 percent of all snow courses. Water content of the snow at elevations above 5000 feet is now 88 percent of average and between 2000 and 5000 feet, it has increased to 86 percent of average. Considerably above normal accumulation of snow must occur during March if all irrigated lands are to have sufficient supplies.

Total water stored in all reservoirs is 18 percent less than at this date last year, 22 percent less than in 1946, 11 percent less than in 1945 and is 18 percent less than average. Only 38 percent of important Oregon reservoirs are half full or better. Storage is definitely short in Warm Springs, Fourmile Lake and Hyatt Prairie Reservoirs.

Watershed soils are well saturated under the snow mantle and mostly not frozen, thus favoring a well sustained runoff from the spring snow pack. Snow densities are among the highest of record.

Preliminary forecasts of April-September stream flow, based on existing mountain snow cover, and on the assumption that snow cover increase during March will be average, are listed on page 2 of this report. Final 1948 snow surveys and forecasts will be published on the 9th of April.



# PRELIMINARY STREAMFLOW FORECASTS, March 1, 1948

The following preliminary runoff forecasts are based on present mountain snow cover and on the assumption that average increase of snow cover will occur during March. Greater or less than average increase in mountain snow cover during March will correspondingly modify these estimates:

	hpr.,-Se	pt.,inc	Streamf	low in	Thous .A.F.
BASIN AND STREAM	Forecas		sured Ru		10-yr •avg •
	1948	1947	1946	1945	1937-46
NORTHCENTIAL OREGON					
Hood River, hest Fork near Dee	160.0	a	164.7	149.8	137.1
UMATILLA-WALIA WALIA					
Umatilla River at Pendleton	160.0	a	194.0	188•7	153.9
Walla Walla River, S.Fork near Milton		a	75.0	69.8	62.7
NORTHEASTERN OREGON					
Wallowa R., E.Fk. and Power Plant	10.5		177	10.9	10.7
Hurricane Cr. near Joseph	42.0	a a	13.3 54.3		41.1
Lostine River near Lostine	112.0	a. a.	149.7		113.8
Bear Creek near Wallowa	57.0	a	83.4		63.6
Grande Ronde River near LaGrande	165.0	a	179.6	168.4	155.8
EASTERN OREGON			2, 5,5	2001	20000
Strawberry Creek near Prairie City	5.6	a	9•9	8.0	7.8
Malheur R., Mid. Fk. near Drewsey	28.0	34.1	83 <b>.</b> 6		75.7
Malheur R., N. Fk., at Beulah	26.0	a	68.9		60.2
· ·	2000	a	0040	00,00	0002
HARNEY BASIN Silvies River, near Burns	7.4	40.0	20.0	20.0	00.4
Silvies River, hear burns	30.0	47 • 7	99.6	98•6	88•4
CENTRAL OREGON					
Ochoco Reservoir Net Inflow	9.5	a	46.4	29.6	21.4
Crescent Lake Not Inflow	10.0	19.2	22.2	11.1	13.2
Odell Creek near Crescent	26.0	a	32.6		24.8
Tumalo Creek and Col.So.Canal	38,0	a	60.9		42.8
Squaw Croek near Sisters	42.0	45.7	63.5	38.4	44.9
SOUTHCENTRAL OREGON					
Deep Creek above Adel	25.0 <sup>b</sup>	а	57.6b	70•2 <sup>b</sup>	61•3 <sup>b</sup>
KLAMATH BASIN					
Upper Klamath Lake Net Inflow	338.0	318.2	557.0	409.9	495.2
SOUTHERN OREGON					
Hyatt Prairie Reservoir Net Inflow	3.5	a	5.5	5.8	5.8
Fourmile Lake Net Inflow	5.7	a	8.7	7.3	6.9
Little Butte Creek, N.Fk., below	0.01	•	C • 1	, •0	0 • 3
Fish Lake (Natural Flow)	12.0	a	15.7	13.8	13•4
Rogue River N.Fk. above Prospect	295.0	a	370.4	295.4	293.4
Clearwater River above Trap Creek	58.0	a	65.7	55.5	57.6
No. Umpqua River below Lake Creek	150.0	a	178.0	148.6	147.6
No. Umpqua River at Toketee Falls	360.0	a	407 • 3	348.1	341.7
WILLAMETTE VALLEY					
Willamette River Mid.Fk. at Eula	700.0	a	830•3	889.2	749.5
McKenzie River at McKenzie Bridge	500.0	a	595.2	533.9	516.4
McKenzie River at Vida	1000.0	a	1227 • 8	1230.8	1107.8
a. 1947 Discharge record not available.					

a. 1947 Discharge record not available.

be April-June rather than April-Sent.



0 feet	- 173	184	- 51	98	
Snow-stored water now present from 2,000-5,000 feet:	as percent of that present one month ago		As percent of that present two years ago -	As percent of avarage	
	8 <del>1</del> 4	30	33	ဆ္ဆ	
Snow-stored water now present above 5,000 feet:	148	120	63	88	

Snow water content on 84 percent of all measured courses is greater than at this time in 1947, and in 94 percent of the comparisons is less than on about March 1 of 1946. Snow water content on 70 percent of all measured courses is less than average for the period of record. Given below is a tabulation showing inches snow-stored water for the March 1 record period on thirteen scattered snow courses.

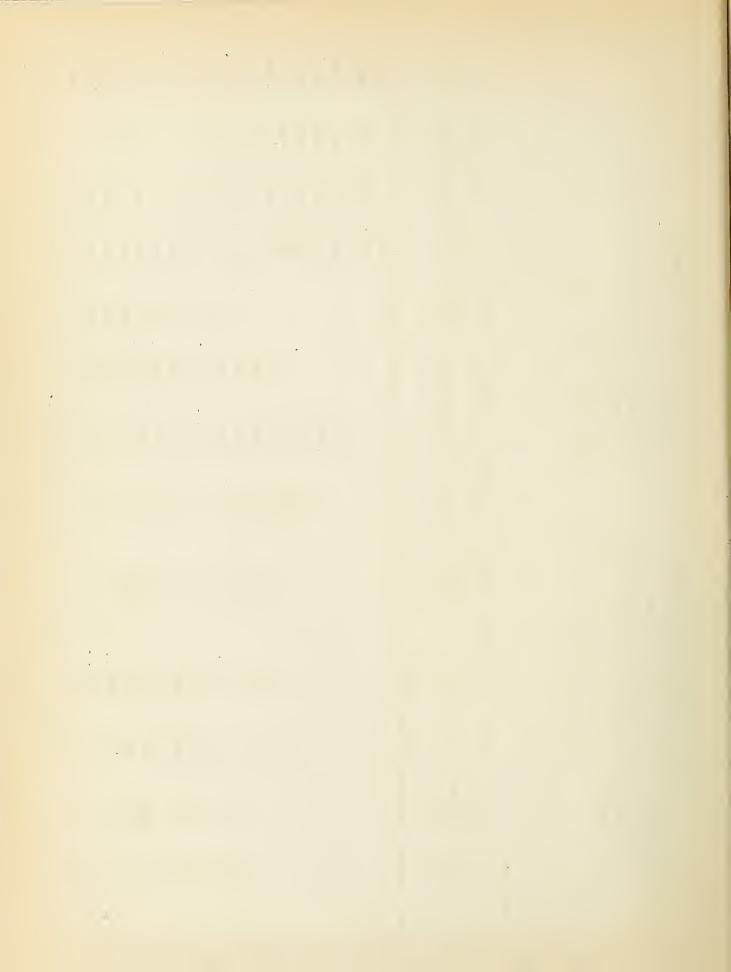
Water Content of Snow (Inches) as of About March 1, 1948

					-	3	~																
Rogue	Diame	Lake		12.6*	2*0*	7.8*	15.4*	27.0*	5.4*	8.6*	17.6*	21.2	18*2	18.2	9.6	12.8	14.6	32.9	10.6	9.47	31.8	10.1	21.9
Klam Rogue	Annie	Spring			22.7	22.1	N.R.	N.R.	N.R.	N.R.	52.1	37.8	41.6	34.0	38.0	39.9	20.0	46.3	21.7	24.2	63.2	29.8	33.2
Klam Rogue	Billie	Creek			6*4	12.8	32.2	30,9	N.R.	N.R.	36.3	27.4	18.4	27.8	10.8	13.5	18,0	31.9	15.5	15.2	2.9.9	12.1	20.5
Klam Desch.	Chemult Billie			5.8*	1.4*	7.8*	13.3*	12.0*	*0.0	7.6*	12.5*	11.0	12.5	8.7	8.0	8.4	10.2	21.4	6.1	5,1	17.6	3.43	5.6
Walla Walla	To 11-	gate												34.6	18.1	15 6	14.1	31*9	19.9	15.3	35.5	18.4	2846
Harney	Izee	Summit									11.0	3.3	6.7	9.1	5.2	7.47	8,8	12.8	6.1	5,48	9.e.7	3.2	7.1
Owyhee	Grani te	Peak					36.5	7.44	7.2	11.8	13.5	7.9	13 +5	12.8	15.0	15.7	13.7	18.9	7.4	11.4	13.0	6.88	6.4
Grooked Owyhee	Ochoco	Meadows							0.0	N.R.	N.R.	13.6	10.0	9.6	8.0	9.8	11.6	14.8	6.1	8.2	14.6	3.2	9.1
John Day- Malheur	Blue	Mountain	जी। गाहिक								18.6	15.3	19.0	13.9	10.3	14.0	12.8	23.0	7.4	10.4	19.6	10.4	11,03
Powder John Day- Burnt	1	Mountain Summit	2 Tulling								10.5	9.3	6.47	9.2	5.4	8.1	9.3	13.4	4.6	7.3	12.3	5.2	8•1
Powder	Eilert-	Son	MEGGOWS							7.3	M.R.	N.R.	11.5	15.1	13.2	10.6	9.1	17.8	5.2	7.0	15.6	3.6	8.3
Grande Ronde	Moss	Spring											19*6	N.R.	18.0	16.3	13.9	32.1	13.5	16.8	24.1	19.0	26.4
Claoke Grande anas Ronde	Peavine	Course Ridge											13.0	19.2	7.6	4.3	8.9	28*2	7.3	6.8	19.5	8	13.0
Stream Basin	Snow	Course	Year	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948

<del>-</del> 3 -

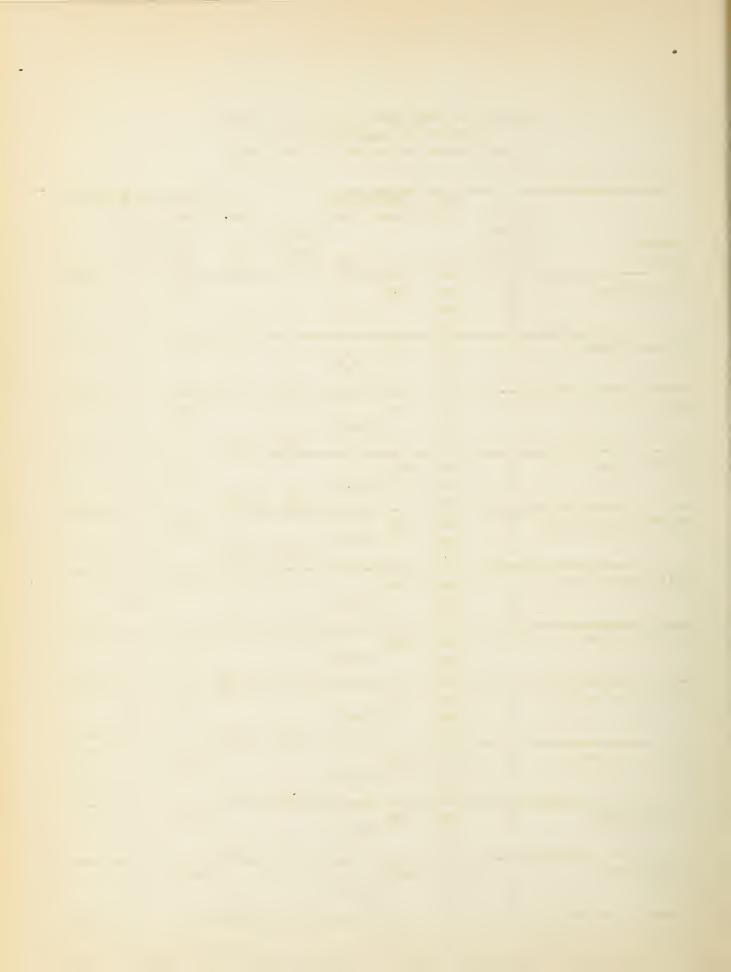
Underscored is least March 1 water content of snow of record period for each snow course shown. \* From COPCO Water Station.

N.R. - No reports



STATUS OF SNOW COVER AS OF MARCH FIRST Summary of Snow Survey Data By Watersheds as of About March First

		Avera	ge Wat	er Dep	th in		1948 S	now Wa	ter
	Number		w Cove	r (Inc	hes)	Yrs.		(Inche	s)
	Of Snow				Avg . Past			rcont	
Stroam	Courses	2040	3046	3040	Yrs.of	Rec-		at in	<i>t</i>
Basin	Averaged	1548	1947	1946	Record	ord	1947	1946	Avg.
Owyhee River	10	5.5	4.1				134		
	12	5.9		8.8		,		67	
	12	5.9			8.7	(8-17)			68
Malhour River	5	7.1	6.1				116		
	5	7.1		13.2				54	
	5	7.1			9.6	(3-12)			74
Burnt River	4	7.7	5.8				133		
	4	7.7		13.2				58	
	4	7.7			8.6	(3-12)			90
Powder River	5	14.3	11.2	-		····	128		
	2	7.4		13.8				54	
	4	9.6			11.0	(8-11)			87
Grande Ronde River	6	21.4	17.8				120		
	6	21.4		25.3				84	
	6	21.4			18.0	(4-11)			119
Walla Walla River	1	28.6	19.4				147		
	1	28.6		35.5				80	
	1	28.6			22.7	(9)			126
Umatilla River	4	14.4	8.1	industrial de la company d			178	en magneto male neprolabilità	yah Periodaka amelikat se ada dan yeste
	4	14.4		19.3				75	
	4	14.4			12.3	(9-11)			117
John Day River	8	10.4	7.2				144		
, and the second	7	10.2		13.6				75	
	8	10.4			9.9	(4-12)			105
Deschutes River	3	13.5	15.3				121		
	4	20.0		31.2			_	64	
	4	20.0			18.1	(3-7)			110
Crooked River	3	5.6	1.6				<b>350</b>		
	3	5.6		10.1				55	
	3	5.6			6∙3	(5-12)			89
Sandy River	3	25.4	25.0				102		
	3	25.4		41.8				61	
	3	25.4			22.6	(6-10)			112



(Continued)									
	Number		ge Wat w Cove		pth in	Yrs.		Snow W	
	of Snow	DITO	W 00 VC.	. ( ****	Avg Pas		-	Percen	
Stream .	Courses				Yrs.of	Rec-	of	that i	
Basin	Averaged	1948	1947	1946	Record	ord	1947	1946	Avg.
Clackamas River	1	13.0	8.5				153		
	2	11.2		17.6		, ,		64	
	2	11.2			11.7	(7-10)			96
Willamette River	5	17.3	12.1				143		
	6	18.5		30.6	10.5	(20)		60	110
	6	18.5			16.5	(3-9)		<del></del>	112
Chewaucan River	1	2.9	3.9				74		
	1	2.9		9 • 6	C 1	(0)		30	۸Ε
	1	2.9			6.4	(9)			45
Harney Basin	7	4.6	2.8				164	<b>5</b> 4	
	7 7	4.6 4.6		8•5	6.7	(4-12)		54	69
C1* 2					0 . 1	(4-16)			03
Silver Lake Basin	1	0.0	0.0	4.1			0	0	
	i	0.0		<b>∓</b> ♦1	3.0	(8)		Ŭ	0
Warner Lake	1	4.6	3.0	<del></del>			153		
	î	4.6	0.00	13.0			100	35	
	ī	4.6			8.1	(4)			57
Guano Lake	2	0.6	0.6		~ <del></del>	**************************************	100		
	2	0.6		5.4				11	
	2	0.6		-	5.2	(7-8)			12
Umpqua River	2	20.8	8.0				260		
	2	20.8		33.5		()		62	
	2	20.8			16 • 6	(9-19)			125
Upper Rogue River	9	14.2	11.0				129		
	9	14.2		25.8		(		55	
	9	14.2			17.8	(4-16)			80
Applegate River	3	12.2	8.9				137		
	2	11.7		17.6		( )		66	
	3	12.2			16.1	(6-10)			76
Illinois River	2	5•4	2.0				270		
	2	5•4		12.7		,		42	
	2	5.4			9.6	(6-9)			56
Klamath Lake Basin		8.2	6.7				122		
	16*	8.2		19.0		( )		43	
	17*	8.2			12.0	(4-21)			65
Goose Lake Basin	3 <b>*</b>	2.6	1.0				260		
	3* 3*	2.6		11.0	6 0	(4-17)		24	7.0
	٠,	2.6			6.9	(4-1/)			38

<sup>\*</sup>Including Copco water measurement stations.



STATUS OF RESERVOIR STORAGE, March 1, 1948

BASIN		USEABLE	THOU	JS.A.F.	IN STO		OUT MARCH 1.
aivD Stream	RESEAVOIR (	CAPACITY Thous • A • F • )	1948	1947	1946	1945	10-yr · avg · 1937-46
		UPPER COL				,	
		LOVER SI					
Cwyhee	Antelope Owyhee	36.5 715.0	7.0	6.6 541.6	11.1	12.7 501.2	9•6 558•4
	Owyliee	713.0	0.73 . 1	241.0	00101	00102	00004
Malheur	Warm Springs	191.0		121.2	90.8	65.6	102.7
	Agency Valley	60.0	40•5	43.3	43.4	50.2	40.7
Burnt	Unity	25.2	7.8	11.9	11.8	11.7	9•6 <sup>d</sup>
Powder	Thief Valley	17•4	17•4	17 • 4	17.4	17.4	14.6
Grande Ronde	Wallowa Lake	40.9	17.6	25.4	11.2	9.8	19.3
		LOWER CO	OLUMBIA	A DRAIN	AGE		
Umatilla	МсКау	74.0	66 •6	56.7	44.5	39.5	38.2
	Cold Springs	50•0	45.6	43.3	42.0	28.1	37.0
Deschutes	Ochoco	46.0	21.6	26.2	34.6	4.5	16.9
	Crescent Lake		47.0		32.3	33.3	34.8
	Crane Prairie Wickiup	50.0 180.0	40.1 134.6	±0.6 86.6	39.3 55.3	27 • 1 54 • 3	33•8 28•5 <b>8</b>
	MIGNIUP		194.0	00 • 0	00 •0	0410	2040
Willamette	Cottage Grove	30.1 <sup>b</sup>	9.2	6.0	9.0	7.0	7 •3 <sup>e</sup>
	Fern Ridge	94•2b	38.2	26.0	24.0	24.0	25.6g
		WEST (	COAST 1	DRAI NAG	E		
Rogue	Fish Lake <sup>a</sup>	7.7	3.4	4.3	3.9	3.7	4.7
	Fourmile Lake	16.0	2.3	4.8	5.0	7.9	7.4
	Emigrant Gap	8.2	8.2	4.9	8.2	4.8	5.8
	Hyatt Prairie	16.0	3.1	2.8	3.0	3.1	6.0
Klamath	Upper Klamath	584.0°	314.4	324.1	401.1	302.7	398.2
All francisco de la constitución						52.2	
	Clear Lake	440.2	146.7	211.3	244.1	279.7	224.2
Goose Lake	Cottonwood	4.1	0.3	0-8	0.0	1.4	0.6f
COOO IMILO	Drew	62.5			46.3		

N.R. - No Report

a - By ditch to Rogue River side from Klamath drainage

d - 1938-1946 e - 1943-1946 f - Excl. '38, '42

b - Storage space reserved for flood control g - 1942-1946

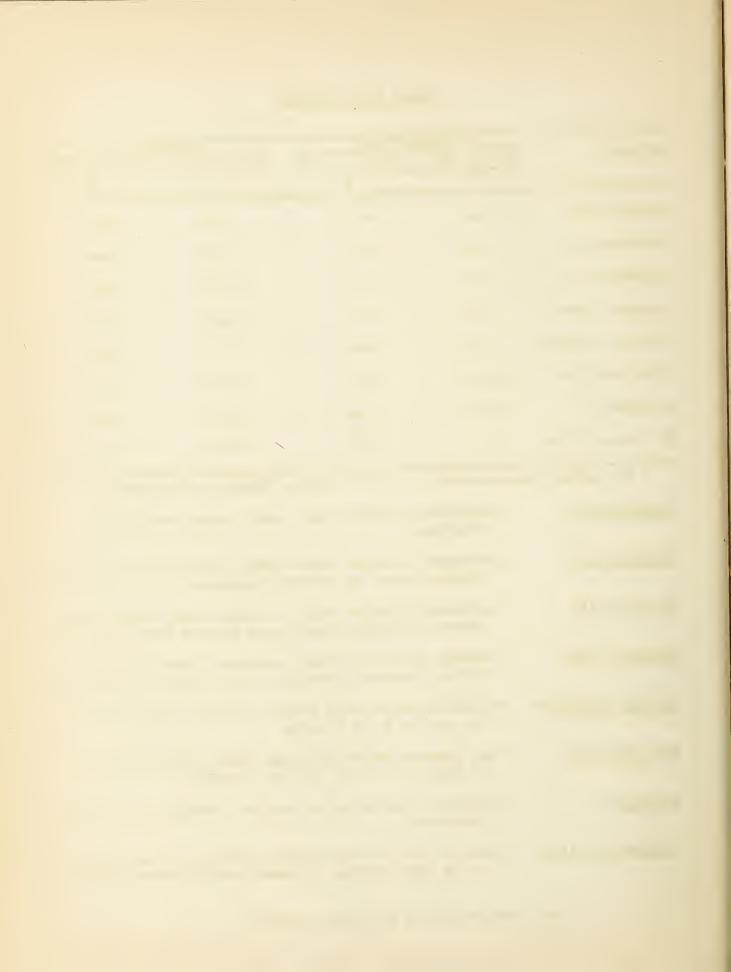
c - Based on gage zero elevation of 4135.0

	70			

# VALLEY PRECIPITATION<sup>a</sup>

	CURE	ENT YEAR		LAST	YEAR
DIVISION	Oct. 1, 1947	- March 1,	1948	Oct. 1, 1946	- March 1, 1947
***************************************	P	D		Р	D
Southeastern	3.8	-1.2		4.40	<b>-</b> 0.79
Southcentral	7 •6	-1.5		7 • 15	-2.28
Worthcentral	8•7	+1.9		5.90	-1.14
Columbia River	9•9	+2.4		5.39	-2.11
Wallowa Mountains	7.6	-0.3		6.77	<b>-</b> 0.88
Blue Mountains	10.4	+1.3		9.73	-0.28
Southern	16.8	+1•0		12.75	-3.06
Willamette Valley	41.4	+6•7		35.10	+0.53
P = Inches P	recipitation	D :	= Inche	s Departure fro	om Normal
Southeastern:	Southeas Counti		range	lands, Harney	and Malheur
Southcentral:			_	lands, Lake Cou de Mountains.	unty and Klamath
Northcentral:				and range lands er and part of	s, Crook, Des- Grant Counties.
Columbia River:			•	and range land and part of Uma	ds, Gilliam, atilla Counties.
Wallowa Mountains		Mountain are	•	est and range	lands, Wallowa
Blue Mountains:				ange lands, Uni illa Counties.	ion and parts
Southern:	Southerr Counti		igated	section, Jackson	on and Josephine
Willamette Valley				hill, Washingto ckamas and Mul	on, and Lane; tnomah Counties:

a - Data furnished by U. S. Weather Bureau



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Date   Single   Court   Line   Line				2000		מיוייים	1	27.77					
March Basin   Number   LOGATION   Nate   Content (In.)   Fast R and   Number   Same Approx   Same Approx   State   State   Sec. TWP. Range   Blov.   Survey (In.)   1946   1947   1946   Record of the content of the content (In.)   State   State   Sec. TWP. Range   Blov.   Survey (In.)   1946   1947   1946   Record of the content of the content (In.)   State   Sec. TWP.   Survey (In.)   Survey (In.)   1948   1947   1946   Record of the content   Sec. TWP.   Survey (In.)   Survey (I									SNOW CO	ER MEA	SUKEMEN		
Number   N	DRAINAGE BASIN		ro	ATION						Content	(In•)		Record
Name	and	Number					Date	Snow		Same A	pprox.	Years	Av.Water
The Peak   Nev.   State   St	SNOW COURSE	or State	Sec		Rango	Elev.	of Survey	Depth (In.)	1948	Da t 1947	1846	of Record	Content (Inches)
The Britch Right Right Right Right Right Right River   Nev.   30   45N   56E   6800   2-29   13.9   4.38   5.5   10.1			!	臼	0	U M B	A D	A I N	ان				
Harman   H				ı									
Particle RIVER   Nev.   30   45N   56E   6800   2-29   24.2   6.3*   5.5   10.1				18	Ω	A K	21	R E I					
Bend         Nev.         30         45N         56E         6800         2-29         24.2         6.3*         5.5         10.1           Canyon         Nev.         32         45N         56E         6800         2-29         13.9         4.9*         5.3         10.1           Creek Ranger St. Nev.         32         45N         56E         6800         2-29         13.9         4.9*         5.3         12.9           i buckskin         Nev.         25         45N         55E         6000         2-27         21.7         7.8*         6.4*         6.8         12.9           r Jack Creek         Nev.         24         44N         53E         7000         2-27         21.7         7.8*         1.2         5.2           in Creek         Nev.         24         44N         53E         7000         2-2         10.9         2.8*         1.2         5.2           in Creek         Nev.         31         42N         54E         7000         2-2         10.9         2.8*         6.7         1.2           stlat         Nev.         31         43N         46E         7000         3-2         1.3*         4.7         9.	OWYHEE RIVER												
Bend         Nev.         30         45N         56E         6800         2-29         24.2         6.3*         5.3         10.1           Canyon         Nev.         32         43N         56E         6800         2-29         13.9         4.9*         5.9         18.9           Creek         Nev.         27         44N         39E         6600         2-29         13.9         4.9*         5.9         7.3           r Jack Carek         Nev.         27         44N         39E         6600         2-27         10.9         4.4*         6.4*         6.4*         6.8         7.3           r Jack Creek         Nev.         24         44N         39E         7000         2-28         18.1         6.8*         3.8         6.7           r Jack Creek         Nev.         24         44N         39E         7000         2-28         18.1         6.8*         3.8         6.7           r Stite         Nev.         14         44N         58E         8000         No Report         6.8*         6.7         15.2           r Buckskin         Nev.         14         45N         53E         500         3-2         4.8         1.3													
Canyon         Nev.         32         43N         54E         6800         3-1         16.3         5.0*         4.3         8.8           Creek Ranger         St. Nev.         32         45N         56E         6600         2-29         13.9         4.9*         3.9         7.3           ite Peak         Nev.         27         44N         39E         6600         2-27         1.7         6.4*         6.8         12.9           r Jack Creek         Nev.         24         44N         39E         7000         2-27         2.7         4.8         1.2         5.2           in Creek         Nev.         24         44N         39E         7000         2-28         18.1         6.8*         3.8         6.7           in Creek         Nev.         24         44N         39E         7000         2-2B         18.1         3.8         6.7           in Creek         Nev.         31         43N         46E         7000         3-1         4.8         6.8         6.7           in Creek         Nev.         35         35         520         3-2         4.8         1.3         6.7         3.8           r Buckskin	Big Bend	Nev.	30	45N	26E	6 800	2-29	24.2	6.3*	5.3	10.1	16	<b>4.</b> € 0
Ranger St, Nev.         32         45N         56E         6600         2-29         13.9         4.9*         3.9         7.3           Kin         Nev.         27         44N         39E         6600         2-28         18.7         6.4*         6.9*         5.2           Kin         Nev.         25         45N         39E         6800         2-2R         10.9         2.8*         1.2         5.2           Creek         Nev.         19         42N         53E         7000         2-2R         10.9         2.8*         1.2         5.2           r         Nev.         18         39N         46E         7000         2-2R         18.1         6.8*         3.8         6.7           r         Nev.         18         39N         46E         7000         3-1         20.2         7.8         6.7         6.7         6.7           neh         Nev.         35         78         630         3-2         4.8         1.3*         0.0         2.5           kin         Nev.         14         45N         55E         500         2-2         4.8         1.3*         6.4         6.7         4.4	Fry Canyon	Nev.	32	43N	54正	6800	3-1	16,3	2.0*	4.3	8.8	14	9.1
Kin   Nev.   27   44N   39E   8600   2-28   18.7   6.4*   6.8   12.9     Kin   Nev.   25   45N   39E   8600   2-27   21.7   7.8*   -   7.1     Creek   Nev.   19   42N   53E   7000   3-2   10.9   2.8*   1.2   5.2     Kin   Nev.   24   44N   39E   7000   3-2   10.9   2.8*   1.2   5.2     Nev.   18   42N   58E   8000   No Report   -   5.2     Nev.   18   39N   46E   7200   No Report   -   5.2     Nev.   31   43N   54E   7000   3-1   20.2   7.8   5.4   15.1     Nev.   32   39N   53E   5200   3-2   4.8   1.3*   0.5   6.7     Nev.   14   45N   39E   8200   2-26   21.5   8.2*   -   6.4     Kin   Nev.   9   42N   53E   5900   2-26   23.8   7.3*   5.2   9.7      IVER			32	45N	56压	0099	2-29	13.9	46.4	3.9	7.3	16	9.9
kin         Nev.         25         45N         39E         6800         2-27         21.7         7.8*         -         7.1           Creek         Nev.         19         42N         53E         7000         3-2         10.9         2.6*         1.2         5.2           r         Nev.         24         44N         53E         7000         2-28         18.1         6.8*         3.8         6.7           r         Nev.         18         39N         46E         7200         No         Report         9.2*         -         5.2           no.         Nev.         31         43N         46E         7200         No         Report         -         5.2           no.         Nev.         31         43N         46E         7200         No         Report         -         5.2           no.         Nev.         35         700         3-1         4.8         1.3*         0.5         6.0         6.2*         4.7         9.5           no.         Nev.         35         55         500         7.2         4.8         1.3*         0.5         6.7         1.5         6.4         15.1	Granite Peak	Nev.	27	44N	39E	8600	2-28	18.7	6.4*	6.8	12.9	16	12.2
Creek         Nev.         19         42N         53E         7000         3-2         10.9         2.8#         1.2         5.2           K         Nev.         24         44N         59E         7000         2-28         18.1         6.8*         3.8         6.7           r         Nev.         4         44N         59E         7000         2-28         18.1         6.8*         3.8         6.7           nev.         18         39N         46E         7200         No Report	Lower Buckskin	Nev.	25	45N	39E	6800	2-27	21.7	7 • 8*		7.1	14	8.2
k Nev. 24 44N 39E 7000 2-28 18.1 6.8* 3.8 6.7  Nev. 4 44N 58E 8000 No Report  Nev. 18 39N 46E 7200 No Report  Nev. 31 45N 54E 7200 No Report  Nev. 32 59N 55E 5200 3-2 4.8 1.3* 0.5 6.7  nch Nev. 4 29N 55E 5200 3-2 4.8 1.3* 0.5 6.7  kin Nev. 14 45N 39E 8200 2-26 21.5 8.2* - 6.4  Creek Nev. 9 42N 55E 5800 No Report  Nev. 9 42N 55E 5800 2-26 21.5 8.2* - 6.4  IVER  K  K  IVER  K  135 21 15S 35E 5200 2-27 21.5 6.0 6.7 10.8  in Spring 135 21 15S 35E 5900 2-27 22.4 6.7 5.8 12.8  in Spring 135 21 16S 32E 5100 2-25 25.5 7.6 5.8 12.8  in Spring 135 21 18S 32E 5100 2-28 12.8 4.1 2.0 8.0  No Report 0.0 6.7 10.8 8.0	Lower Jack Creek	Nev.	19	42N	53正	7000	3-2	10.9	2.8*	1.2	2.5	17	4.9
r Nev. 18 39N 46E 7200 No Report - 5.2  Nev. 18 39N 46E 7200 No Report - 5.2  Nev. 18 39N 46E 7200 No Report - 5.2  Nev. 31 43N 54E 7000 3-1 19.4 6.2* 4.7 9.5  ain #2 Idaho 35 7S 5W 6340 3-1 20.2 7.8 5.4 15.1  on Nev. 32 39N 55E 5200 3-2 4.8 1.3* 0.5 6.7  kin Nev. 4 29N 55E 5600 No Report - 6.4  kin Nev. 14 45N 39E 8200 2-26 21.5 8.2* - 6.4  Creek Nev. 9 42N 55E 7800 3-2 33.8 7.3* 5.2 9.7  IVER  k	Martin Creek	Nev.	24	44N	39正	7000	2-28	18.1	•	3.8	6.7	16	o•9
Nev. 18 39N 46E 7200 No Report  Nev. 31 43N 54E 7000 3-1 19.4 6.2* 4.7 9.5  Nev. 32 7S 5W 6340 3-1 20.2 7.8 5.4 15.1  On Nev. 32 39N 53E 5200 3-2 4.8 1.3* 0.5 6.7  Kin Nev. 4 29N 55E 5600 No Report  Creek Nev. 9 42N 53E 7800 3-2 33.8 7.3* 5.2 9.7  IVER  K 143 145 16 145 35E 5900 2-26 36.7 11.3 10.4 19.6  in Spring 133 21 15S 35E 5900 2-26 22.4 6.7 5.8 12.8  in Spring 134 23 18S 32E 5100 2-28 12.8 4.1 2.0 8.0  I 34 2 3 18S 32E 5100 2-28 12.8 4.1 2.0 8.0  No Report O.O 6.7 10.8 6.0  S-2 3 44 15.1 15.2 15.2 15.5 14.6  I 35 31 34 15 34 15 10.0 Report O.O 6.7 10.8 6.2	Mary's River	Nev.	4	44N	58臣	8000		ort		*2.6	t	တ	16.9
ain #2         Nev.         31         45N         54E         7000         3-1         19.4         6.2*         4.7         9.5           on         Nev.         32         7S         5W         6340         3-1         20.2         7.8         5.4         15.1           on         Nev.         4         29N         55E         500         No Report         0.0         2.5         6.7         15.1           kin         Nev.         14         45N         53E         7800         2-26         21.5         8.2*         -         6.4         15.1           Creek         Nev.         9         42N         53E         7800         3-2         4.8         1.3*         0.0         2.5         6.4         15.1           Creek         Nev.         9         42N         53E         7800         3-2         33.*         7.3*         5.2         9.7           IVER         135         15         35E         5900         2-26         36.7         11.3         10.4         19.6           in         Spring         137         24         16S         35E         5100         2-26         25.4         6.7	Midas	Nev.	18	39N	46E	7200		ort		ı	2.5	7	7.1
ain #2 Idaho 35 75 5W 6340 3-1 20.2 7.8 5.4 15.1  on Nev. 32 39N 53E 5200 3-2 4.8 1.3* 0.5 6.7  nch Nev. 4 29N 55E 5600 No Report  kin Nev. 9 42N 55E 7800 2-26 21.5 8.2* - 6.4  Creek Nev. 9 42N 55E 7800 2-26 21.5 8.2* - 6.4  IVER  k  last 143 16 145 36E 5950 2-27 21.5 6.0 6.7 10.8  in Spring 133 21 155 35E 5120 2-25 25.5 7.6 5.8 12.8  last 23 18S 32E 5100 2-28 12.8 4.1 2.0 8.0  No Report O.5 6.7 11.6 14.6  ser 135 33 21S 34E 4800 No Report O.0 6.2 8.0  O.0 6.2 15.8 14.6	Rodeo Flat	Nev.	31	43N	54E	7000		19.4	6.2*	4.7	9.5	14	10.0
on Nev. 32 39N 53E 5200 3-2 4.8 1.3* 0.5 6.7 nch Nev. 4 29N 55E 5600 No Report 0.0 2.5 6.7 kin Nev. 14 45N 39E 8200 2-26 21.5 8.2* - 6.4 6.4 Creek Nev. 9 42N 55E 7800 3-2 33.8 7.3* 5.2 9.7 lin Spring 133 21 15S 35E 5900 2-26 22.4 6.7 5.8 12.8 lin Spring 135 21 16S 35E 5900 2-26 22.4 6.7 5.8 12.8 lin Spring 135 21 16S 35E 5120 2-25 25.5 7.6 5.8 12.8 lin Spring 135 33 21S 34E 5100 2-28 12.8 4.1 2.0 8.0 lin Spring 135 33 21S 34E 4800 No Report 0.0 0.0 6.7 0.0 6.2	South Mountain #2	Idaho	35	78	5W	6340	3-1	20.2	7.8	5.4	15.1	ထ	11.1
nch         Nev.         4         29N         55E         5600         No Roport         0.0         2.5           kin         Nev.         14         45N         39E         8200         2-26         21.5         8.2*         -         6.4           Creek         Nev.         9         42N         53E         7800         3-2         33.8         7.*3*         5.2         9.7           IVER         143         16         144         36E         5950         2-27         21.5         6.0         6.7         10.8           k         137         24         163         34E         5375         2-26         36.7         11.3         10.4         19.6           ie         136         10         16S         35E         5120         2-26         25.5         7.6         5.8         12.8           ie         134         23         18S         32E         5100         2-26         25.5         7.6         5.8         14.6           e.         134         23         18S         32E         5100         No Report         0.0         6.2         0.0         6.2         0.0         0.0         0.0	Taylor Canyon	Nev.	32	39N	53正	5200	3-2	4.8	1.3*	0.5	6.7	13	0•9
kin       Nev.       14       45N       39E       8200       2-26       21.5       8.2*       -       6.4         Creek       Nev.       9       42N       53E       7800       3-2       33.8       7.3*       5.2       9.7         IVER         IVER         k       143       16       148       36E       5950       2-27       21.5       6.0       6.7       10.8         in Spring       133       21       15S       35E       5900       2-26       36.7       11,3       10.4       19.6         ie       137       24       16S       35E       5120       2-26       25.4       6.7       5.8       12.8         134       23       18S       32E       5120       2-26       25.5       7.6       5.5       14.6         134       23       18S       32E       5100       2-28       12.8       4.1       2.0       8.0         er       135       33       21S       34E       4.80       No Report       0.0       6.2	Tremewan Ranch	Nev	4	29N	55压	5600	No Ret	ort		0.0	2.5	16	2.8
Nev.   9 42N 53E 7800 3-2 33.8 7.3* 5.2 9.7     IVER	Upper Buckskin	Nev.	14	45N	39正	8200	-26	21.5	\$2	t	6.4	14	0.0
IVER  k	Upper Jack Creek	Nev.	0	42N	53臣	7800	3-2	3	\$3 53			12	8 46
k lospring l33 21 158 36E 5950 2-27 21.5 6.0 6.7 10.8 in Spring l33 21 158 35E 5900 2-26 36.7 11.3 10.4 19.6 ie l37 24 168 34E 5375 2-26 22.4 6.7 5.8 12.8 12.8 136 10 168 33E 5120 2-25 25.5 7.6 5.5 14.6 in l34 23 188 32E 5100 2-28 12.8 4.1 2.0 8.0 in l35 33 21S 34E 4800 No Report	MALHEUR RIVER												
in Spring 133 21 15S 35E 5900 2-26 36.7 11.3 10.4 19.6 i.e 137 24 16S 34E 5375 2-26 22.4 6.7 5.8 12.8 12.8 136 10 16S 332E 5120 2-25 25.5 7.6 5.5 14.6 i.g 134 23 18S 32E 5100 2-28 12.8 4.1 2.0 8.0 e.z er 135 33 21S 34E 4800 No Report	Barney Creek	143	16	148	36E	5950	2-27	21.5	0.9	6.7	10.8	23	7 • 4
ie 137 24 163 34E 5375 2-26 22.4 6.7 5.8 12.8 13.8 13.8 13.8 13.8 32E 5120 2-25 25.5 7.6 5.5 14.6 13.4 23 188 32E 5100 2-28 12.8 4.1 2.0 8.0 er 135 33 21S 34E 4800 No Report 0.0 6.2		133	21	158	35臣	5900	2-26	36.7	11.3	10.4	19.6	12	14.6
136 10 16S 33½E 5120 2-25 25.5 7.6 5.5 14.6 134 23 18S 32E 5100 2-28 12.8 4.1 2.0 8.0 er 135 33 21S 34E 4800 No Report 0.0 6.2		137	24	16.5	34E	5375	2-26	22.4	6.7	5.8	12.8	တ	0•6
134 23 18S 3ZE 5100 2-28 12.8 4.1 2.0 8.0 er 135 33 21S 34E 4800 No Report 0.0 6.2	Lake Creek	136	10		33計正	5120	2-25	25.5	<b>7.6</b>	5.5	14.6	တ	10.3
er 135 33 21S 34E 4800 No Report 0.0 6.2	Rock Spring	134	23		32E	5100	2-28	12.8		2.0	8.0	12	9•9
	Stinkingwater	135	33	218	34E	4800	No Rep	oort				10	4.2

\*Telegraphic - Subject to minor revision.



			OREC	EGON SHOW	W SURVEYS,	S, MARCH,	1948						
		Cl	LOCATION					SNOW CC	SNOW COVER MEASUREMENTS	SUREMEN	TS		
DEALWAGE BASIN								i.a ter	content (In.	(In.)	Past I	Record	
and SNOW COURSE	Number or State	0	Twn	الم م م	ਜੁ ਜੁ • ਦ	Date of Survey	Snow Depth	1948	Same Approx Date	pprox• e	Years of Record	Av.Water Content (Inches)	
RITRNT RIVER			1	o l									
	2 V C	3.5	טער	7. T	r Cr	26-6	7,16	0,	7. 9	۵. ۲	87	7.4	
Blue Mountain Summit	140	9	125	36 36 36	5098	2-27	25.3	8	20 00		12	4.8	
Doley Mountain	156	32	118	40E	5430	3-1	21.4	9.9	3.8	12.1	6	8	
Tipton	142	45	108	35%形	5100	3-3	28.7	10.2	7.7	17.6	2	8 • 6	
POWDER RIVER													
Anthony Lake	155	18	78	37E	7125		Report		28.8	31.8	ω	22.7	
Bourne	154	33	88	37E	5800	80	40.2	11.8	11.2	1	11	13.5	
Dooley Mountain	156	32	118	40E	5430	3-1	21.4	9•9	3.8	12.1	თ	8 8	
Eilertson Meadows	151B	18	88	38E	5400	3-3	27.5	8.3	3.6	15 •6	10	10.9	
Gold Center	249	21	98	36E	5340	2-28	32.9	11,8	0.6	ŧ	8	11,0	
Goodrich Lake	157	34&35	88	38E	6775	2-27	0.06	32.8	28•3	t	Н	28.3	
IMMAHA RIVER													
Aneroid Lake No. 1	183	16	45	45E	7480	2-28	85.4	29.1	32.1	36.7	4	26.3	
Aneroid Lake No. 2	183A	16	45	45E	7000	2-28	68.4	24.5	25.3	28.5	4	20.5	
Coverdale	171	22	58	47E	4250	2-25	33.1	10.4	4.5	17.4	ю	9•1	
GRANDE RONDE RIVER													
Aneroid Lake No. 1	183	16	45	45E	7480	2-28	85 • 4	29.1	32.1	36.7	4	26.3	
Lake No.	183A	16	4S	45E	7000	2-28	68.4	24.5	25.3	28.5	4	20.5	
Lake	155	18	78	37 E	7125	No	Report		28.8	31.8	ω	22.7	
Beaver Reservoir	188	ස	55	37E	5340	2-28	36.8	10.7	13.7*	12.8	တ	10.4	
Meacham		24&25	13	35E	4300	3-1	28.4	9.3	3.0	14.3	11	8 & 8	
Moss Spring	186A	28	38	41E	5850	2-27	78.7	26.4	19.0	24.1	6	19.3	
Tollgate	212	32	4N	38E	5070	3-1	77.44	28.6	19.4	35.5	6	22.7	
*Telegraphic													



1948
MARCH,
SURVEYS,
SNOW
OREGON

		3	LOCATION					SNOW COVER	OVER ME	50 1	ZIZ	
DRAINAGE BASIN								Water	Content	t (In.)	Past	
and SNOW COURSE	Number					Date of	Snow Depth		Same Approx. Date	prox.	Years	Av.Water Content
	State	Sec.	Twp. F	Range	Elev.	Survey	(In.)	1948	1947	1946	Record	(Inches)
		T. O W	<u>α</u>		æ Z	ر 3	T N A					
		=   -   -	4  4		41 41 41	#   	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	7   7				
WALLA WALLA RIVER												
Tollgate	212	32	4N	38E	2070	3-1	77 •4	28.6	19.4	35 •5	თ	22.7
UMATILLA RIVER												
Emigrant Springs	222	53	IN	35E	3925	3-1	20.5	8•0	0.2	12.7	11	9•9
Lucky Striko		28	38	32E	5050	3-2	40 • 6	11.6	6*6	14.6	o ,	11.1
Meacham	221	24&25 32	JS	35E	4300	3-1 - 2	28.4	9.83	30.0	14.3 75.5	۲, o	8 8
1011ga ne	212	30	4	100°		100	¥•//	0 0 7	F-CT	200	0	• 77
WILLOW CREEK												
Arbuckle Mountain	241	33	48	29压	2400	No K	No Keport		5 .9	14.8	7	6*6
JOHN DAY RIVER												
Arbuckle Mountain	241	33	48	29压	5400		Report		5.9	14.8	7	6•6
Beech Creek Summit		4	125	30臣	4300	2-26	11.8	4.2	0.4	6,8	11	0•9
Blue Mountain Springs		21	158	35E	2 300	2-26	36.7	11,3	10.4	19.6	12	14.6
Blue Mountain Summit	14]	9	125	36E	2098	2-27	25.3	8.1	2 .5	12 • 3	12	8•4
Gold Center	249	21	98	36压	5340	2-28	32.9	11.8	0	1	∞	11.0
Izee Summit	964	28	168	五62	5293	2-28	24.1	7.1	3.5	9.7	15	7 49
Olive Lake	245	14	98	33岩田	0009	2-25	61.6	25 • 9	16.7	22.2	12	15.2
Snow Mountain	965	Н	198	26E	6300	2-24	39.5	11.1	11.1	16.2	4	10•7
Starr Ridge	247B	50	15S	31E	5150	2-27	12,8	3.7	J•6	ಹ ಕ್ಕ	12	5°6
HOOD RIVER												
Tilly Jane-Mt. Hood	432	15	28	36	0009	2-29	82 • 6	31.2	New	New Snow Course	onrse	



		LOC	LOCATION					SNOW CO	SNOW COVER MEASUREMENTS	SUKEME	TS	
DRAINAGE BASIN								Water	Content	(In.)	Past	Record
and	Number					Da te	Snow		Same Ap	Same Approx.	Years	Av. Water
anow cookas	State	Sec.	Twp.	Range	Elev.	Survey	(In.)	1548	1947	1946	Recor d	(Inches)
DESCHUTES RIVER												
Crescent Lake	325	11	248	王9	4760	3-1	18.5	8.2	i	•	1	ı
Cascade Summit	321	7	238	6距	4880	3-1	0.99	24.8	1	40.5	63	23.0
Clear Lake	361	29	48	BB	3500	2-28	31.7	10.1	4.5	15.7	9	7.1
Hogg Pass	351	24	138	7売田	4755	2-27	9• 96	34.2	30.3	52.4	7	31.7
Marks Creek	344	25	128	19E	4540	2-26	8•6	3.0	0.0	0.9	10	₽•₽
Ochoco Meadows	341	27	138	20E	5200	2-28	31.1	9•1	3.2	14.6	12	9.1
Rock Creek	362	~	4S	10E	4200	No	Report		9.5	17.7	~	13.4
Snow Mountain	965	~	198	26E	6300	2-24	39.5	11.1	11.1	16 •2	4	10.7
Tamarack	342	∞	158	25E	4800	2-27	15.9	4.7	1.5	8.6	2	5.3
SANDY RIVER												
Phlox Point-Mt. Hood	462	9	38	36	2600	3-3	141.5	53.8	58.3p	76.0	10	45.0
Still Creek	451	25	38	8 <del>1</del> 1	3700	3-1	52.1	19.7	12.2	33.7	10	15.8
CLACKAWAS RIVER												
Clackamas Lake	592	35	58	8旁距	3400	3-1	28.5	9.5	ı	15.8	7	11.1
Peavine Ridge	591 1	14&15	6S	7E	3500	3-2	37.6	13.0	⊗ •	19.5	10	12.3
WILLAMETTE RIVER												
Breitenbush	551	21	00	7E	2325	2-28	8.9	3+3	4.4c	5.0	9	2.1
Cascade Summit	321	7	233	至9	4880	3-1	0.99	24.8	ı	40.5	63	23.0
Champion	522	12	238	田	4500	2-29	53.1	19.6	5.8	35.2	တ	18.0
Hogg Pass	351	24	138	7記五	4755	2-27	9.96	34.2	30.3	52.4	7	31.7
Warion Forks	553	28	118	7E	2730	2-27	27.0	<b>ω</b> σ	7.6	17.4	7	ಹಿ
Santiam Junction	552	14	138	7E	3990	2-27	51.6	19.5	12.5	32 • 8	7	15•8
b - March	11			0	February	y 22						

· OREGON SNOW SURVEYS, MARCH, 1948



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		TOC	LOCATION					SHOW COVER LEASUREMENTS	ER LEAS	UREMENT	S	
DRAINAGE BASIN								Water Content		(In•)	Fast	Record
and	Number					Date	Snow Don't b		Same A	orox.	Years	Av. Water
SNOW COURSE	or State	Sec.	Twp.	Range	Elev.	Survey	(In.)	1948	1947 ]	1946	r d	(Inches
				t- t-	р	٠ د	, .					
			리 리 리	리 리 리	41 21	#	a  5  4					
SILVER LAKE												
Silver Creek	942	25&26	298	13E	4900	2-28	Trace	Trace	0.0	4.1	ω	3.0
CHEWAUGAN RIVER												
Mill Creek	922	П	34S	17E	6200	2-26	10.1	5.9	3.9	9•6	თ	6.4
HARNEY BASIN												
Deer Creck	973	17	368	26至	6670	2-24	9.1	3.1	0.1	8.1	ر د	0° ×
Hart Mountain Idvlwild Camp	97.1 96.1A	33	20.5	31五	5200	2-28	9.5	3.2	0.0	0 0 0 0	12	0 0
Izee Summit	964	28	168	29正	5293	2-28	24.1	7.1	3.5	9.7	12	7.9
Rock Spring	134	23	188	32E	2100	2-28	12.8	4.01	2.0	8.0	12	9•9
Snow Mountain	965	Н	198	26正	6300	2-24	39.5	11.1	11.1	16.2	쉬 (	10.7
Starr Ridge	247B	50	158	31E	5150	2-27	12.8	3.7	1.6	8	12	5.6
WARNER LAKE												
Camas Creck	911A	ည	398	21E	5720	3-1	13.2	4.6	3.0	13.0	4	8.1
GUANO LAKE												
Bald Mountain	Nev	17	45N	21E	6720	3-1	Trace	Trace	9•0	3.1	∞	4.1
Guano Creek	972	13	368	25压	6480	2-26	4.4	1.2	0.7	7.7	7	6.4
		M	E S I	01	AST	DRAI	INAGE	63.1				
UMPQUA KIVER												
Champion Diamond Lake	522 743	12 29	23S 27S	1E 6E	4500 5315	2-29	53,1	19,6	5.8	35.2	9	18.0



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		100	TOC TTON					SNOW COVER BE SHREWHITS	VER BES	SURRANTI	TIS.	
DEATWAGE BASTN	-							Water (	Content	(In.)	Past	Record
and	Number					Date	Snow	1	Same	1 4	7	Av. Water
SNOW COURSE	or	(			ļ	of	Depth	0	2 :	Da te	of	Content
	State	Sec	Twp.	Kange	Elev.	Survey	(In•)	1948	1947	1946	Record	(Inches)
ROGUE RIVER												
Althouse	7216	17	41S	71W	4400	3-1	2.0	0.5	0.0	5.0	6	4.3
Annie Spring	831	19	318	至9	6018	2-28	90•2	33 •2	29.8	61.2	14	35.8
Big Red Mountain	729	31	±08	1W	6500	2-28	48.3	12.2	ı	t	t	à
Billic Creek Divide	722	30	368	5臣	5300	2-27	46.7	20.2	12.1	29.9	16	21.2
Fish Lake	725	3	378	4正	4865	2-28	21.1	7.8	0•₩	16.8	13	11.9
Grayback Peak,	727	တ	40S	5W	0009	3-2	29.6	10.3	0•₹	20.4	9	14.8
Hobart Lake	7221	17	40S	3E	5010	2-25	4.2	1.2	New	Snow Course	ourse	
Hyatt Prairie Keser.	723	15	398	33	4900	2-25	19.8	6.3	2.6	13.3	15	7.6
Little Red Mountain	7210	22	40S	2W.	6500	2-27	34.3	12.6	ı	:	1	ı
Park Headquarters	838	ထ	318	至9	6450	2-28	111.2	37.0	39.6	66.4	4	50.1
Scragg Mountain (Calif) 7220	,7220	o,	47N	TOW	6200	2-29	32.0	13.2	13.4	ı	9	20.1
Silver Burn	7219	30	308	4E	37.20	2-28	23.5	8.0	1.5	17.4	11	9•4
Siskiyou Summit	728	17	40S	2E	4630	2-28	5.5	1.6	0.0	8.2	12	5.6
South Fork Canal	7218	12	338	3E	3500	2-28	3.4	9•0	0.0	4 •0	11	3.4
Wagner Butte	7213	гH	40S	H	0069	2-26	38.6	13.1	9.2	14.9	10	13.3
Whaloback	7217	23	318	2E	2140	3-5	74.4	24.8	1	1	1	•
WIAMATH LAKE BASIN												
Annie Spring	831	39	318	9	6018	2-28	90°5	33.2	29.8	61.2	14	35.8
Beatty 2/		22	368	12E	4300	No	Report	\	0.0	0.3	21	0.2
Billie Creek Divide	722	30	368	2正	5300	2-27	46.7	.20.2	12.1	29.9	16	21.5
Bly 101 Ranch 2/		22	358	14臣	4800	No	Report		0.0	₩0	21	1.8
Chemult No, 1	854	21	278	8E	4760		17.5	2.6	3.3	17.6	11	10.2
Chiloquin 2/		34	34S	7正	4187	2-29	0.0	0•0	0.0	6•0	18	1.5
						•	(0)			ç		\$ + O + O

<sup>2/</sup> Water content determined by melting one measured sample (The California Oregon Power Company's Station).

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OKEGON SNOT SURVEYS, MARCH, 1948

			OTTO COL	AL DAY OF	OTTENTO .	9 11771119	TO EO					
		TOC	LOCATION					SHOW CC	DVER MEA	SNOW COVER MEASUREMENTS	TS	
DRAINAGE BASIN								"a ter	water Content (In.	(In.)	Past Record	scord
and	Number					Date	Snow		Same A	Same Approx.	Years	Aveilater
SHOW COURSE	or					of	Depth		Dat	, e	of	Content
	State	Sec.	Twp. R	Range	Elev.	Survey	(In.)	1948	1947 1	1946	Record	(Inches)
KLAMMITH LAKE BASIN (Cont'd.)	ont'd.)											
Crowder Flat (Calif.)		30	47N	11E	5200	2-29	₽	₽	0.0	5.4	7	3.4
Crystal 2/		56	348	6臣	4200	2-29	13.0	6.5	0.0	11.0	18	8.7
Fort Klamath 2/		22	333	7 <u>3</u> E	4150	2-29	2.5	0.5	0.0	3.3	21	4.0
Harriman Lodge 2/		23	368	田9	4200	2-29	0.0	0.0	0.0	9•₹	21	4.0
Hyatt Prairie Reserv. 723	, 723	15	398	3正	4900	2-25	19.8	6.3	2.6	13.3	15	9.7
Kirk 2/		Н	333	7E	4533	2-29	3.0	1.0	Trace	11.8	20	6.3
Lake of the Woods #1	835	11	378	5臣	4960	2-29	17.2	4.5	2.1	12.7	11	7.8
Park Headquarters	838	ω	318	6E	6450	2-28	111.2	37.0	39.6	66.4	4	50.1
Quartz Mountain	811	ત્ય	388	16E	5320	2-29	1.0	0.2	0.0	11.1	o,	5.9
Quartz Mountain 2/		33	378	16E	5504	2-29	0.6	3.0	0.0	0.6	17	8.9
Summor Rim	841	15	333	16E	7200	2-25	30.3	8.3	9.8	1	ω	12.07
Sun Mountain	836	22	328	7 <u>3</u> E	5350	3-1	45.5	14.4	15.4	39.0	10	23.5
Yamsey 2/		20	318	11E	4600	2-29	000	0.0	0.0	6.2	19	2.3
1410 d d71 1 d0000												
GOOSE LANE BASIN												
Camas Croek	911Å	ß	398	21E	5720	3-1	13.2	9.4	3.0	13.0	7	8•1
Quartz Mountain	811	2	388	16臣	5320	2-29	1.0	0.2	0.0	11.1	6	5.9
Quartz Mountain 2/		33	378	16E	5504	2-29	0.6	3.0	0.0	0•6	17	8•9

2/ Water content determined by melting one measured sample (The California Oregon Power Company's Station).

SNOW SURVEY DATA RECEIVED TOO LATE FOR PUBLICATION IN FEBRUARY 1 REPORT

OREGON SNOW SURVEYS, FEBRUARY, 1948

		LOC	LOCATION					SNOW	SNOW COVER WEASUREMENTS	EMENTS		1
DELINAGE BASIN								Kater	Water Content (In.)		Past kecord	1
and contra	Number					Date	Date Snow		Same Approx.		Years Av. Water	
away wowa	State	State Sec. Twp.		Range Elev.	Elev.	Survey	_	1948	H		kecord (Inches)	
ROGUE KIVER												
Hobart Lake	7221	17	40S	3正	5010	2-6	3.0	0.4	New Sn	New Snow Course		
HOOD KIVEK												
Greenpoint kes.	433	Location		Data		2-3	2-3 19.7	7.4	New Sn	New Snow Course		
Red Hill	434	= 1 2 2 3 3 4	ne tayed	=		2-8	0.09	23.4	New Sn	New Snow Course		



The following organizations cooperate in the Oregon snow survey work:

# STATE

Idaho Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon State Engineer and corps of State Watermasters
Oregon State Highway Engineers

### FEDERAL

Department of Agriculture
Forest Service
Soil Conservation Service
Department of Commerce
Weather Bureau
Department of the Interior
Bonneville Power Administration
Bureau of Reclamation
Fish and Wildlife Service
Geological Survey
Indian Service
National Park Service
War Department
Army Engineer Corps

### PUBLIC UTILITIES

California-Pacific Utilities Company Portland General Electric Company The California Cregon Fower Company

# MUNICIPALITIES

City of Faker City of Corvallis City of LaGrande City of The Dalles

# IRRIGATION DISTRICTS

Associated Ditch Companies
Central Oregon Irrigation District
Deschutes County Municipal Improvement District
East Fork Irrigation District
Grants Pass Irrigation District
Jordan Valley Irrigation District
Lakeview Water Users Incorporated
Medford Irrigation District
Ochoco Irrigation District
Rogue River Irrigation District
Talent Irrigation District
Vale-Oregon Irrigation District
Warmsprings Irrigation District

# PRIVATE ORGANIZATIONS

Amalgamated Sugar Company South Wasco Soil Conservation District The Crag Rats

